

EXTRA WORD PROBLEM PRACTICE

- 1) You are 22 feet away from the base of a flagpole. The angle of elevation to the top of the flagpole is 65° . Find the height of the flagpole to the nearest tenths place.
- 2) The angle of elevation from ^{the bottom} to the top of a water slide is 28° . The length of the slide is 45 feet. How high is it to the top of the slide?
- 3) A staircase has an angle of elevation of 38° and the staircase is 17 feet long. What is the vertical height of the staircase?
- 4) You lean a 16 foot ladder against the wall. If the ladder makes an angle of 70° with the ground, how far away from the base of the wall is the ladder?
- 5) You lean a 20 foot ladder against a wall. The base of the ladder is 4 feet from the wall. What angle does the ladder make with the ground?
- 6) A 750 feet tall building has a shadow that is 380 feet long. What is the angle of elevation from you to the top of the building?

Extra Word Problem Answers

1) 47.2 ft

2) 21.1 ft

3) 10.5 ft

4) 5.5 ft

5) 78.5°

6) 63.1°